Att'y Docket: 1802.03

Claim Amendment under 37 CFR 1.121(c)

Claim 1. (Cancelled)

Claims 2. - 3. (Cancelled)

Claims 4. - 19 (Cancelled)

Claim 20. (Currently amended) A zoom system for forming an image with varying magnification comprising one or more variable focal length lenses, wherein the variable focal length lens is made of a micromirror array lens, wherein the micromirror array lens comprises a plurality of micromirrors, wherein each micromirror is controlled to change the focal length of the micromirror array lens, wherein the micromirror array lens further comprises a plurality of mechanical structures upholding the micromirrors and actuating components actuating the micromirrors, [[~~The zoom system of claim 1,~~]] wherein the micromirror array lens is an adaptive optical component, wherein the micromirror array lens corrects aberrations.

Claim 21. (Currently amended) A zoom system for forming an image with varying magnification comprising one or more variable focal length lenses, wherein the variable focal length lens is made of a micromirror array lens, wherein the micromirror array lens comprises a plurality of micromirrors, wherein each micromirror is controlled to change the focal length of the micromirror array lens, wherein the micromirror array lens further comprises a plurality of mechanical structures upholding the micromirrors and actuating components actuating the micromirrors, [[~~The zoom system of claim 1,~~]] wherein the micromirror array lens is an adaptive optical component, wherein the micromiror array lens corrects the defects of the zoom system that cause the image to deviate from the rules of paraxial imagery.

Claim 22. (Cancelled)

Claim 23. (Currently amended) A zoom system for forming an image with varying magnification comprising one or more variable focal length lenses, wherein the variable focal length lens is made of a micromirror

array lens, wherein the micromirror array lens comprises a plurality of micromirrors, wherein each micromirror is controlled to change the focal length of the micromirror array lens, wherein the micromirror array lens further comprises a plurality of mechanical structures upholding the micromirrors and actuating components actuating the micromirrors, [[~~The zoom system of claim 1,~~]] wherein the micromirror array lens is controlled to satisfy the same phase condition for each wavelength of Red, Green, and Blue (RGB), respectively, to get a color image.

Claim 24. (Original) The zoom system of claim 23, further comprising a plurality of bandpass filters.

Claim 25. (Original) The zoom system of claim 23, further comprising a photoelectric sensor, wherein the photoelectric sensor comprises Red, Green, and Blue (RGB) sensors, wherein a color image is obtained by treatment of electrical signals from the Red, Green, and Blue (RGB) sensors.

Claim 26. (Original) The zoom system of claim 25, wherein the treatment of electrical signals from the

Red, Green and Blue (RGB) sensors is synchronized and/or matched with the control of the micromirror array lens to satisfy the same phase condition for each wavelength of Red, Green and Blue (RGB), respectively.

Claims 27. - 32. (Cancelled)

Claim 33. (Currently Amended) A zoom system for forming an image with varying magnification comprising one or more variable focal length lenses, wherein the variable focal length lens is made of a micromirror array lens, wherein the micromirror array lens comprises a plurality of micromirrors, wherein each micromirror is controlled to change the focal length of the micromirror array lens, wherein the micromirror array lens further comprises a plurality of mechanical structures upholding the micromirrors and actuating components actuating the micromirrors, wherein the variable focal length lenses comprise a first variable focal length lens and a second variable focal length lens, wherein the focal length of the first variable focal length lens and the focal length of the second variable focal length lens are changed to form the image in-focus at a

given magnification,

[[~~The zoom system of claim 27,~~]] further comprising a focus lens group, an elector lens group and a relay lens group, wherein the first variable focal length lens forms a variator lens group, and the second variable focal length lens forms a compensator lens group.